KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
College of Sciences, Prep-Year Math Program
SYLLABUS
MATH 001 (041)

Pre-Requisite	HIGH SCHOOL ALGEBRA
Textbook	College Algebra & Trigonometry by Aufmann /Barker/Nation, 4th Edition, Houghton Mifflin, (2002)
Objectives	The students are expected: to comprehend the material of this course. to improve their computational skills in basic Algebra and Trigonometry to demonstrate their writing ability in Mathematics with logical steps. Please note that the medium of instruction will be strictly ENGLISH from the first day of classes.

Week#	Date	Text Sections	Topic	Homework Problems
1	Sep. 11-15	P-1	The Real Number System	1,5,10,22,31,38,48,64,76
2	Sep. 18-23 *	P-2	Intervals, Absolute Value and Distance	2,5,14,24,38,40,58,60,68,79,86,96
		P-3	Integer and Rational Number Exponents	22,30,50,52,77,83,88,103,112,124,128,136
*** Thursday September 23 will be considered as Normal Tuesday Classes**				
3	Sep. 25-30 **	P-4	Polynomials	16,22,34,44,50,62,69,84
		P-5	Factoring	8,18,26,36,46,54,60,74,84
**** Thursday September 30 will be considered as Normal Wednesday Classes**				
4	Oct. 2-6	P-6	Rational Expressions	6,21,36,38,44,58,69,72
		1.1	Linear Equations	4,11,19,28,36,38,56,57,70,77
5	Oct. 9-13	1.2	Formula and Applications (Examples #1 and #2) and (table 1.1***) ONLY	2,13,16,20,21,25
		1.3	Complex Numbers (pages 85-88)	
6	Oct. 16-20	1.3	Quadratic Equations	10,12,21,30,35,41,46,61,75,80,87,105,114,118
		1.4	Other Types of Equations	8,12,18,27,30,39,49,58,71
Suggested Time for Class Test 1 (Week 6)				
7	Oct. 23-27	1.5	Inequalities	9,18,24,28,34,43,55,59,69,88,96,103
8	Oct. 30- Nov.3	2.1	A Two-Dimensional Coordinate System and Graphs	6,16,22,29,43,65,71,76,90,104,107
Midterm Exam - Saturday Oct. 30 – (P.1 – 1.5)				
Eid al-Fitr Vacation				
9	Nov. 20-24	2.2	Introduction to Functions	5,9,16,24,36,37,42,43,49,54
		2.3	Linear Functions	8,12,26,38,41,50,68,70,87
10	Nov. 27- Dec.1	2.4	Quadratic Functions	8,18,24,33,43,65,73,81
		2.5	Properties of Graphs	
11	Dec. 4-8	2.5	Properties of Graphs	6,12,15,28,29,38,42,45,56,58,59
		2.6	The Algebra of Functions	12,26,32,46,57,64,78
12	Dec. 11-15	3.1	Polynomial and Synthetic Divisions	10,20,38,46,50,60,63,69,76
		3.2	Polynomial Functions	4,14,17,35,48,51,64

Suggested Time for Class Test 2 (Week 12)				
13	Dec. 18-22	3.3	Zeros of Polynomial Functions	3,10,16,24,38,47,61,74
14	Dec. 25-29	3.4	The Fundamental Theorem of Algebra	4,12,23,50,61,65
		3.5	Rational Functions and Their Graphs	4,18,23,46,53,67
15	Jan. 1-2	4.1	Inverse Functions	5,10,24,28,38,42,54,67
	Jan. 3	Review	Last Day of Classes	

Evaluation Policy	Midterm Exam (MCQ): 24 points	Final Exam (Comprehensive & MCQ): 36 points
	Class Work: (2 written **class tests**, at least 4 **WRITTEN** quizzes**, CAL Activity**, **Homework**, **Class Attendance**, etc): 40 points	
CAL	The syllabus of the weekly CAL Classes is on the back of this sheet. CAL Questions may be asked in the Exams.	

Note # 1: A student will be awarded the GRADE "DN" after missing EIGHT classes without an OFFICIAL excuse.
It is the responsibility of the student to keep the record of his absences. Students will have ONLY 6 days to submit their excuses to the prep-year affairs
(1st warning: 3 absences; 2nd warning: 6 absences; "DN": 8 absences)

Note # 2: To check your warnings (WEEKLY), Homework Solutions, Exam Locations, and other Math announcements, Please visit Portable 3, Math Bulletin Board (beside PR-108), or www.kfupm.edu.sa/mathprep.

Note # 3: During the first week, exam week, and the final week , the CAL class will be Conducted as a regular class.

***: The students are asked to **memorize** the top 5 formulas of (table 1.1, page 72) and **understand** the bottom 5 formulas .